King County

WASTEWATER TREATMENT DIVISION
PROJECT MANAGEMENT UNIT
Upcoming AEP Procurements as of 1st Quarter 2017

Upcoming Consultant Opportunities:

Project - Engineering Services	Advertise
West Point Mixed Liquor Blower - Dave Truman	Q1, 2017
South Treatment Plant 13kV Switchgear Replacement Phase 1 Project Planning - Bill Olwell	Q1, 2017
Jameson / ArcWeld Building Replacement – Judy Pickar	Q1, 2017
University CSO Control - Greeen Stormwater Infrastructure - Chris Robinson	Q2, 2017
Sediment Management Technical Services – Jeff Stern	Q2, 2017
Treatment Plant Flow and Loadings Study - Tiffany Knapp	Q2, 2017
Interbay Force Main and Odor Control Project - Marla Brooks	Q2, 2017
Eastside Interceptor Section 2 Corrosion Repair - MaryBeth Gilbrough	Q2, 2017
Brightwater Aeration Basin Optimization - Rebecca Gauff	Q2, 2017
WTD Capital Project Formulation - Ann Grothe	Q2, 2017
System Wide Arc Flash Assessment - Kolby Hoagland	Q3, 2017
Small Generator Replacements at Various Facilities - Sarah Draper	Q3, 2017
West Point LSG Pipe Replacement - Rebecca Gauff	Q4, 2017
West Point Return Activated Sludge and Primary Effluent Pipe Replacement - Rebecca Gauff	Q4, 2017
Sammamish Plateau Diversion - Sue Hildreth	tbd, 2018

Project - CM Services	Advertise
North Mercer Island and Enatai Interceptors Upgrade - Sibel Yildiz	Q3, 2017
Lake Hills and NW Lake Sammamish Interceptor Upgrade - Jennifer Kauffman	Q3, 2017
Chelan Avenue CSO Control - Michael Popiwny	Q1, 2018
University GSI - Chris Robinson	Q3, 2019
West Duwamish - Chris Robinson	Q2, 2021

West Point Secondary Mixed Liquor Channel Air Blower Replacement

BACKGROUND:

- Centrifugal blowers provide agitation air for the mixed liquor channel, via coarse bubble diffusers

PROJECT OBJECTIVE:

- Improve energy efficiency of channel aeration

PHASE 1: Alternative Analysis

- Conduct evaluation of current aeration requirements
- Compare and contrast alternatives to provide more energy efficient aeration

FUTURE PHASES:

- Predesign, Final Design and Bidding Services
- Services During Construction

RFP Issued

Proposals Due 3/13/17

Contract Specialist: Paul Price
Contract No. E00470E17

South Treatment Plant 13kV Switchgear Replacement Contract E00478E17

OVERVIEW: Replacement of the 13kV switchgear that provide service for the Raw Sewage Pump Building.

SCOPE:

- Project Planning
- Review Basis of Design Report and Equipment Assessment
- Predesign, final design and bidding services
- Services during construction

EXAMPLE SERVICES/DELIVERABLES:

- Predesign Report
- Construction bid package
- Startup and testing services

Project Cost: Anticipated $622,000
Contract Specialist: Tina Davis and Ruth Williamson
Contract No. E00478E17

RFP Issued

Proposals Due Q1 2017

Jameson/ArcWeld Building Replacement

OVERVIEW: Provide a safe and functional facility to house WTD's West Section Off-Site Facilities and North Satellite Construction Management personnel.

SCOPE:

- Perform Alternatives Analysis & Develop Recommended Alternative
- Building will include heavy machine shop with high bay, overhead crane and welding area.
- Achieve LEED Platinum Certification and/or International Living Future Institute's Living Building Challenge.

EXAMPLE SERVICES/DELIVERABLES:

- Phase 1 - Alternatives Analysis & Site Selection
- Phase 2 – Preliminary Design
- Phase 3 – Final Design & Bidding Services
- Phase 4 – Services During Construction

RFP anticipated Q1 2017

Project Cost: Anticipated $1.7 M

Project Manager: Judy Pickar

University Green Stormwater Infrastructure

BACKGROUND: Using natural processes (e.g., bioretention) to capture stormwater so that it reduces the peak and total volumes entering the combined system.

PROJECT OBJECTIVE: Install GSI facilities in the University Basin to reduce the gray infrastructure demands (e.g., storage, treatment) needed for full CSO control at the University Regulator Station Overflow.

PHASE 1: Alternatives Analysis (AA)

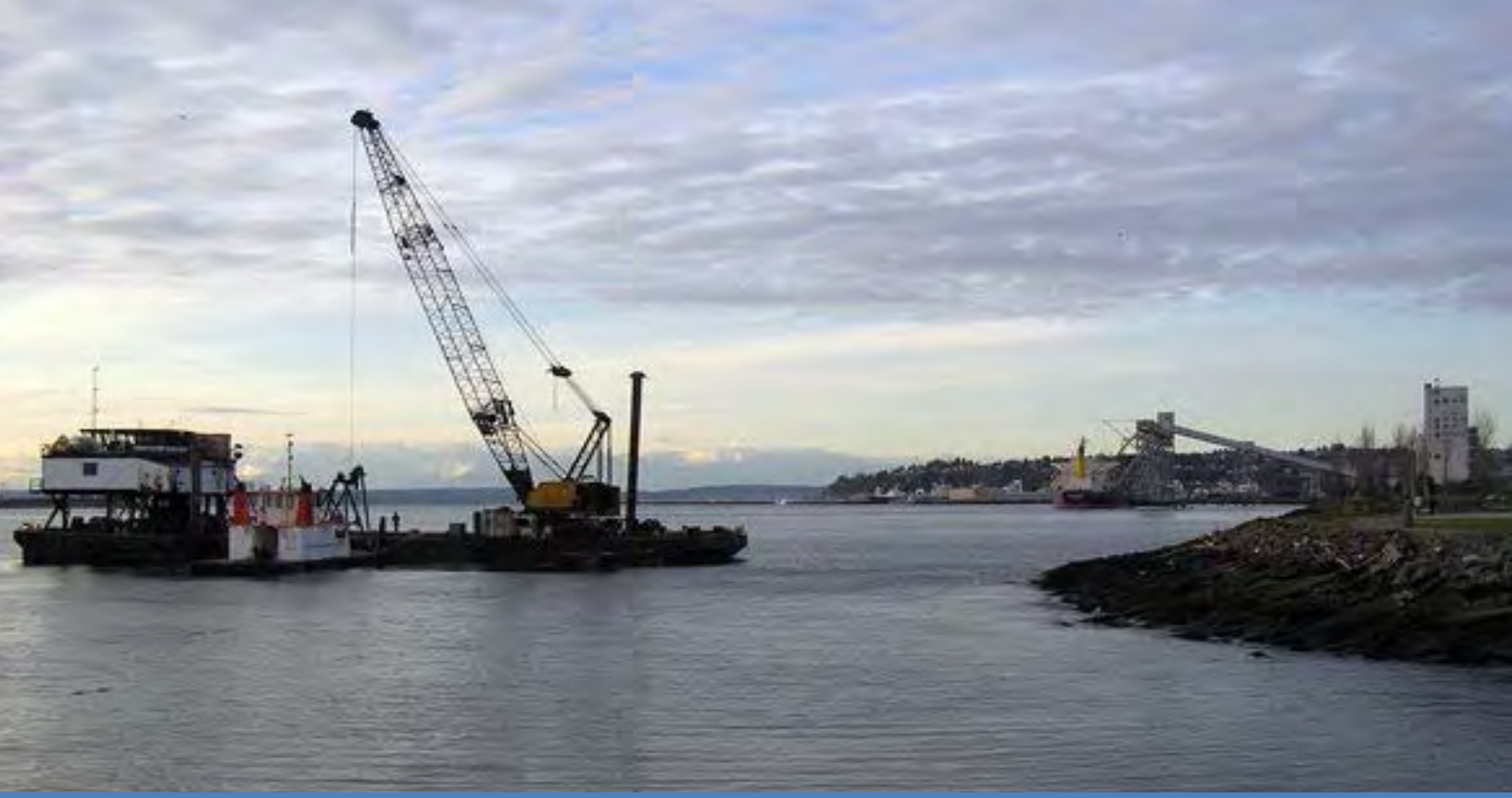
- Conduct geotechnical/hydrogeological investigation to support AA
- Conduct community outreach to support AA

FUTURE PHASES:

- Predesign and final design services
- Construction management services

RFP anticipated Q2 2017

Project Manager: Chris Robinson and Liz Korb
Project Engineer: John Abdalkhani



Sediment Management Technical Services

OBJECTIVE: Support the County's work to assess and clean up contaminated sediment resulting from nearshore discharges for selected sites identified in the Sediment Management Plan.

PRELIMINARY SCOPE ITEMS:

- Site Characterization and Remedial Investigation Work Plans
- Feasibility Studies, Risk Assessment, and Alternative Analysis
- Cleanup Action Plans

ANTICIPATED CONSULTANT SERVICES NEEDED:

- Engineering Design for Contaminated Sediment Remediation
- Project Management: Remedy Planning and Design
- Remedy Implementation Oversight
- Environmental Review
- Source Control Investigation
- Interagency and Stakeholder Coordination

RFP anticipated Q2 2017

Project Manager: Jeff Stern

Interbay Force Main and Odor Control Project

OVERVIEW: Replace segments of the force main and resolve odor control/H2S corrosion issues at the discharge structure

SCOPE:

- The project will determine the locations and length of replacements needed in the 3,000 foot force mains at Interbay
- Design and construct odor control, may need to be relocated

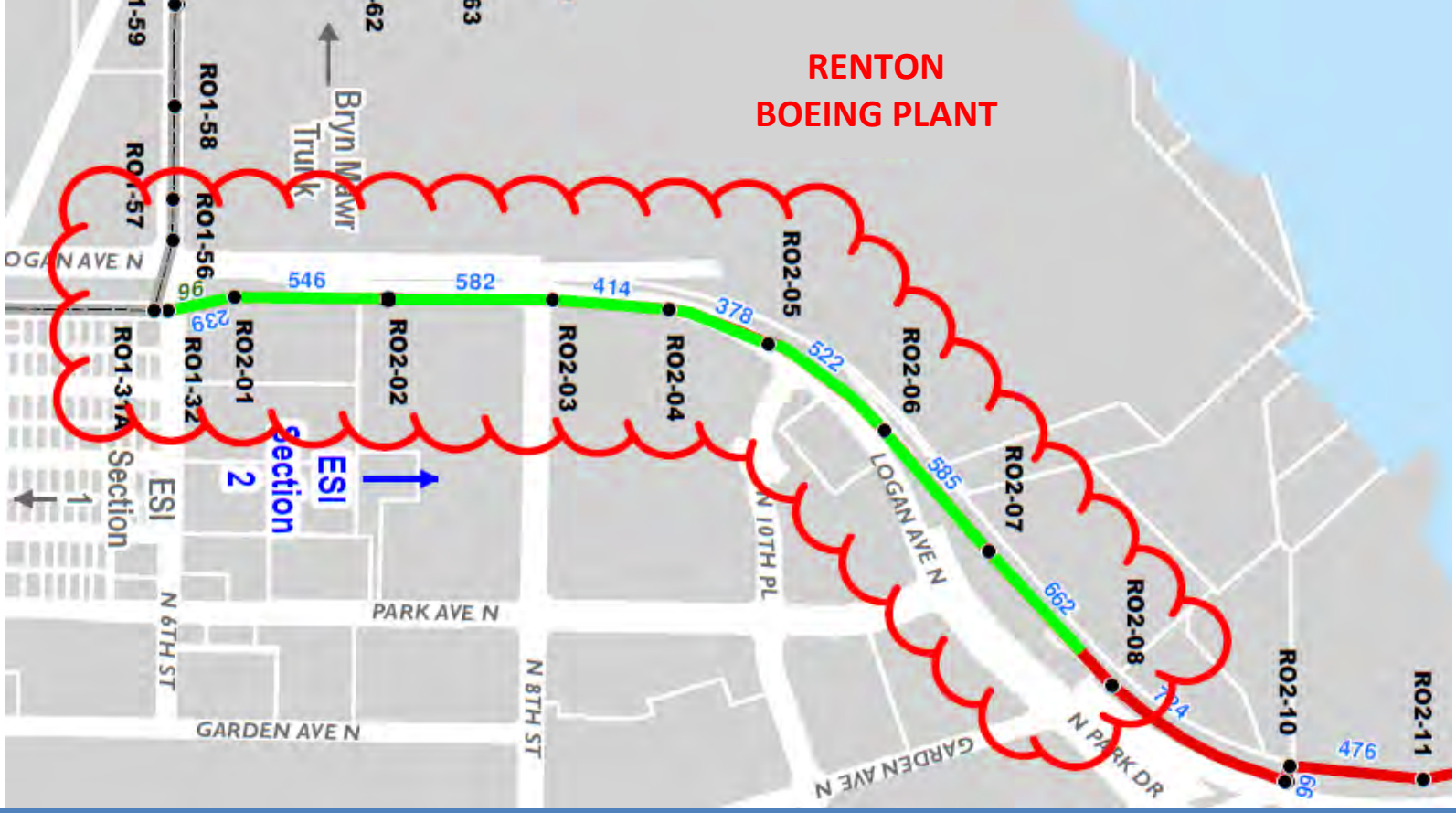
Anticipated Consultant Services Needed:

- Engineering: Design services for preparing Contract Documents
- Permitting: City of Seattle Right-of-Way, Street Use
- Property: Rights of Entry w/Army, property easements

Project Cost: Anticipated $31 Million

Project Manager: Marla Coles

RFP anticipated Q2 2017



Eastside Interceptor Section II Rehabilitation

OVERVIEW: Rehabilitate severely corroded 96-inch Interceptor

SCOPE:

- Rehabilitate 3,900 feet of 96-inch reinforced concrete pipe
- Sewer bypass as large as 70 MGD may be necessary.
- Work will impact public right-of-way and Boeing Property.

Anticipated Consultant Services Needed:

- Engineering: Design services for preparing Contract Documents
- Permitting: City of Renton Right-of-Way, Grading, Street Use
- Property: Boeing easements, other private property easements
- Community Relations: Assist with outreach

Project Cost: Anticipated $30 Million
Project Manager: MaryBeth Gilbrough

RFP anticipated Q2 2017

Brightwater Aeration Basin Optimization

BACKGROUND: Aeration basins alkalinity lower than anticipated; requires significant alkalinity addition to meet discharge limit pH permit.

PROJECT OBJECTIVE: Optimize existing aeration basin performance by:

- Improving diffuser/zone control
- Reducing chemical costs (alkalinity addition), energy use, foaming

PHASE 1: Alternatives Analysis

- Analyze aeration basin design and performance
- Analyze process air system
- Coordinate with other aeration basin related projects

FUTURE PHASES:

- Predesign and final design services
- Construction management services

Project Cost: Anticipated $12.5 Million
Project Manager: Rebecca Gauff
Project Engineer: Rick Andrews

RFP anticipated Q2 2017

WTD Project Formulation

OVERVIEW: Refine planning level scope, schedule and cost information to improve evaluation and development of several capital projects.

SCOPE:

- Project Assumptions & Constraints
- Cost Estimating & Scheduling
- Alternatives Analysis (high level)

EXAMPLE SERVICES/DELIVERABLES:

- Class 5 Estimate & Basis of Estimate documentation
- Schedule with Forecasted Cash Flow
- Procurement Plan
- Risk Assessment
- ESJ and Sustainability Analysis

RFP anticipated Q2 2017

Project Cost: Anticipated $3M

Project Manager: Ann Grothe

Electrical Systems Analysis & Arc Flash Study

OVERVIEW: Review electrical systems in all WTD facilities that pose an arc flash hazard and execution of an arc flash study in accordance with NFPA 70E

SCOPE:

- Project Planning
- Review and confirmation of installed electrical systems
- Analysis of systems and arc flash study
- Produce report by facility
- Execution of trainings on findings

EXAMPLE SERVICES/DELIVERABLES:

- Summary of collected data by facility
- Final report & arc flash study by facility
- Trainings for facility & engineering staff

RFP anticipated Q3 2017

Project Cost: Anticipated $900,000
Project Manager: Kolby Hoagland

Small Generator Replacement at Various Offsite Stations

OVERVIEW: The project will replace aging standby power generators at 13 Regulator Stations and two Outfall Stations in Seattle.

PROJECT OBJECTIVE: Ensure that reliable backup electrical power is available to keep the facilities operating during power outages.

TASK / PHASE 1:

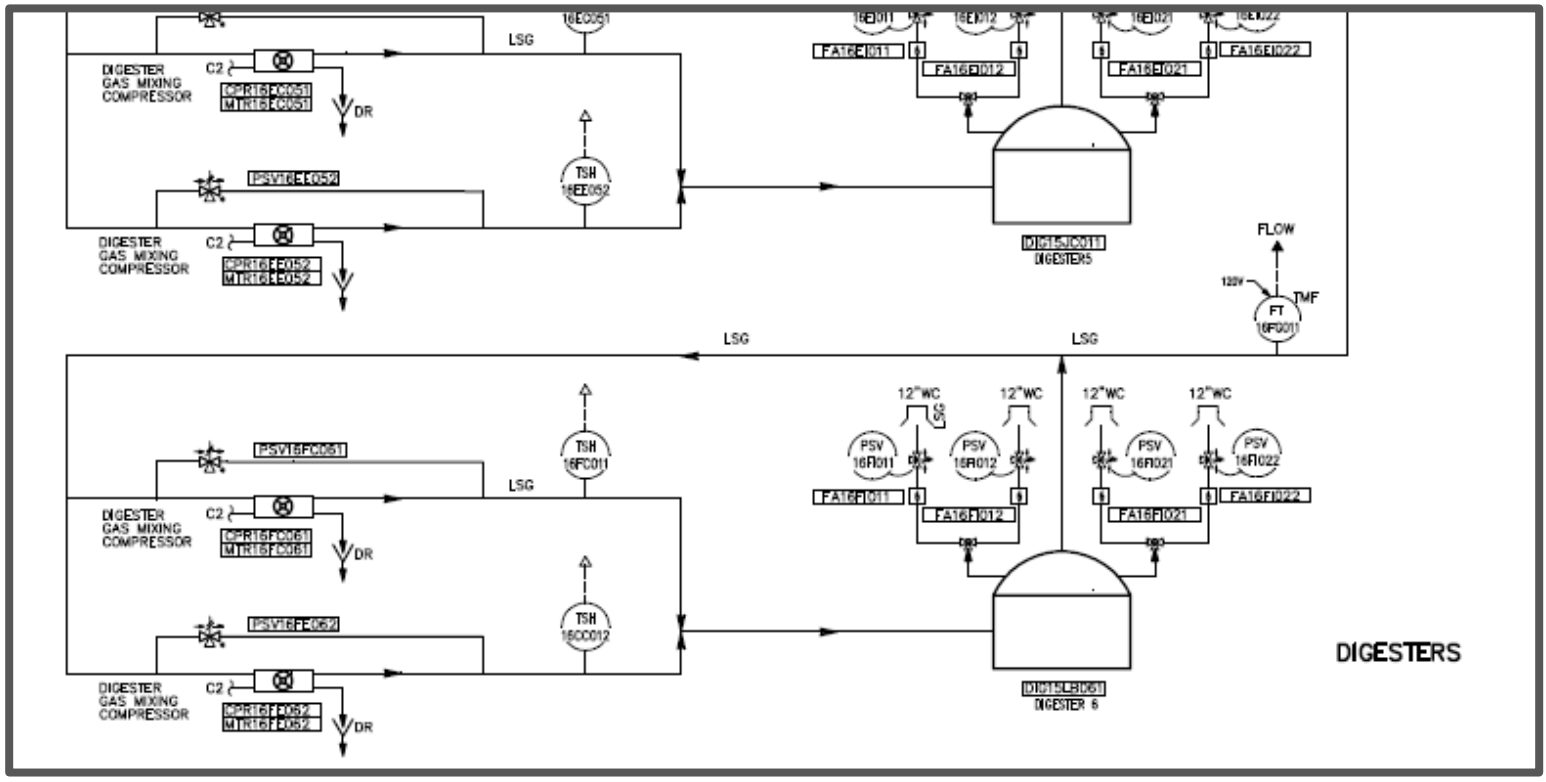
- Alternatives Analysis

FUTURE TASKS/PHASES:

- Baseline Design
- Final Design
- Engineering Services During Construction

Project Manager: Sarah Draper

RFP anticipated Q3 2017



West Point LSG Piping Replacement

OVERVIEW: Replace the Low Pressure Biogas (LSG) piping system at West Point Treatment Plant

SCOPE:

- Determine/confirm extent of piping replacement.
- Design replacement piping and appurtenances.
- Develop implementation strategy for pipe replacement.

Key Considerations:

- Operations: Systems utilizing LSG must remain in service.
- Safety: WTD Process Safety Management Committee review and approval is required in addition to other code/permit requirements.

Project Cost: Anticipated: $8.5 Million
Project Manager: Rebecca Gauff

RFP anticipated Q4 2017

West Point PE and RAS Pipe Restoration/Replacement

OVERVIEW: Restore/Replace the Primary Effluent (PE) and Return Activated Sludge (RAS) Piping at West Point Treatment Plant

SCOPE:

- Determine/confirm extent of piping restoration and/or replacement.
- Design replacement piping and appurtenances.
- Develop implementation strategy for pipe replacement.

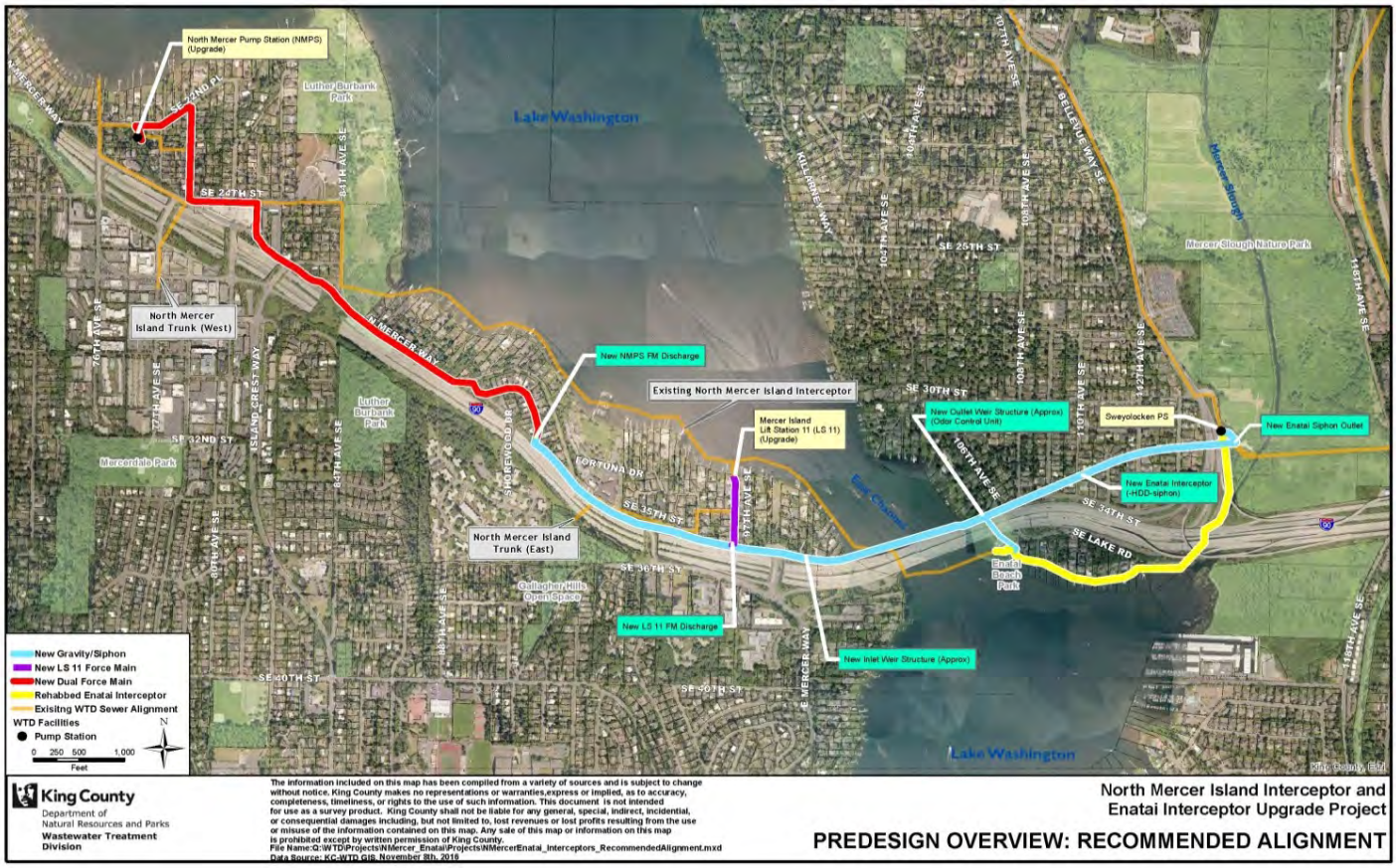
Key Considerations:

- Operations: Systems must remain in service.
- Pipe Location: Includes exposed and buried pipe.

Project Cost: Anticipated: $2.9 Million

Project Manager: Rebecca Gauff

RFP anticipated Q4 2017



Construction Management Services for the North Mercer Island and Enatai Interceptors Upgrade Project

OBJECTIVE: Construct approximately 3 miles of sewer pipelines between North Mercer Pump Station and Sweyolocken Pump Station by open-cut on-land, in-water construction and trenchless methods to increase system reliability, performance, and capacity of the existing system. The project also includes North Mercer Pump Station upgrade, Lift Station 11 modifications, and rehabilitation of the existing Enatai Interceptor.

PRELIMINARY SCOPE ITEMS:

- Constructability review
- Construction contract administration support
- Construction inspection

ANTICIPATED CONSULTANT SERVICES NEEDED:

- Project control (cost and schedule analysis)
- Construction inspection

CM Services Contract Cost: Anticipated $4,000,000
Project Manager: Sibel Yildiz, PMP
Engineering: Mann-Ling Thibert / Jesse Collins

RFP Anticipated Q3 2017

Construction Management Services for the Lake Hills Trunk/NW L. Sammamish Interceptor Sewer Upgrade Project

OBJECTIVE: Construct approximately 4.4 miles of sewer pipelines by open-cut construction and trenchless methods to increase capacity. The new pipelines will generally follow the existing pipeline alignment.

PRELIMINARY SCOPE ITEMS:

- Constructability review
- Construction contract administration support
- Construction inspection

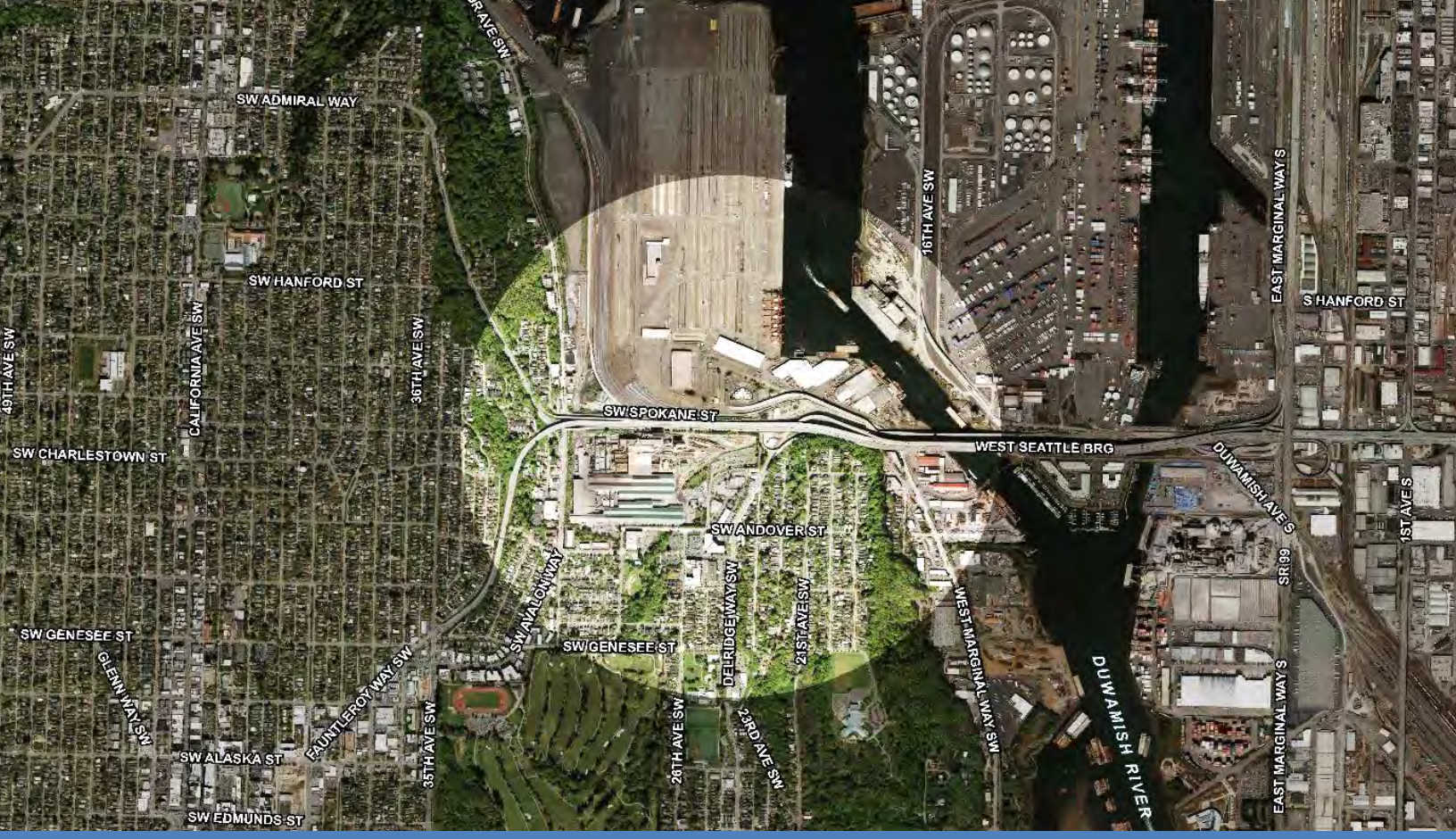
ANTICIPATED CONSULTANT SERVICES NEEDED:

- Project control (cost and schedule analysis)
- Construction inspection

RFP anticipated Q3 2017

Project Cost: Anticipated $3,000,000

Project Manager: Jennifer Kauffman, PMP



Construction Management Services for the Chelan Avenue CSO Storage Project

PROJECT OBJECTIVE: Control Chelan Avenue Combined Sewer Overflow to one event per year on a 20 year rolling average

PROJECT SCOPE:

- This project will require the construction of a buried storage tank or tunnel to hold approx. 4.3 million gallons of combined waste and rain water, a pump station of approx. 7.7 mgd, above grade support facilities likely to include a facilities building, odor control, emergency generation and flow diversion and discharge.

ANTICIPATED CONSULTANT SERVICES NEEDED:

- Construction Management to Support King County
- Services to begin before completion of 60% design
- NTP estimated in Late 2019

RFP anticipated Q1 2018

Contract value for CM Services: Approx. $4,000,000

Project Manager: Michael Popiwny



Construction Management Services for the University Green Stormwater Infrastructure Implementation

OBJECTIVE: Construct GSI facilities in the University Basin to reduce the gray infrastructure demands (e.g., storage, treatment) needed for full CSO control at the University Regulator Station Overflow.

PRELIMINARY SCOPE ITEMS:

- Constructability review
- Construction contract administration support
- Construction inspection

ANTICIPATED CONSULTANT SERVICES NEEDED:

- Project control (cost and schedule analysis)
- Construction inspection
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Project Cost: Anticipated $2,000,000
Project Manager: Chris Robinson, PMP

RFP Anticipated Q3 2019

Construction Management Services for the West Duwamish CSO Control Project

OBJECTIVE: Control the West Michigan and Terminal 115 CSO Overflows to one event per year on a 20 year rolling average using green stormwater infrastructure, storage or some combination of the two.

PRELIMINARY SCOPE ITEMS:

- Constructability review
- Construction contract administration support
- Construction inspection

ANTICIPATED CONSULTANT SERVICES NEEDED:

- Project control (cost and schedule analysis)
- Construction inspection

Project Cost: Anticipated $2,500,000
Project Manager: Chris Robinson, PMP

RFP Anticipated Q2 2021